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12 PERSONAL AUTHOR(S) Bill Ingold				
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17 COSATI CODES			18. SUBJECT TERMS (Continue on reverse if necessary and identify by block number)	
FIELD	GROUP	SUB-GROUP	Performance Oriented Packaging, POP, Primers, Electric M83, M125, and M128 MIL-B-2427 Wood Box	
19. ABSTRACT (Continue on reverse if necessary and identify by block number)				
This POP report is for M83, M125 and M128 electric primers which is packaged 45 electric primers per MIL-B-2427 wood box. This report describes the results of testing for these items.				
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20 DISTRIBUTION/AVAILABILITY OF ABSTRACT <input checked="" type="checkbox"/> UNCLASSIFIED/UNLIMITED <input type="checkbox"/> SAME AS RPT <input type="checkbox"/> DTIC USERS			21 ABSTRACT SECURITY CLASSIFICATION Unclassified	
22a NAME OF RESPONSIBLE INDIVIDUAL Eugene Farrell			22b TELEPHONE (Include Area Code) (201) 724-2142	22c OFFICE SYMBOL SMCAR-AEP

I. REPORT NUMBER: DOD POP HMTR/AYD 94-002

II. TITLE: Performance Oriented Packaging Report for M83, M125, and M128 Electric Primers

AUTHOR: Bill Ingold

PERFORMING ACTIVITY: ARDEC

ADDRESS: Department of the Army  
ARDEC, SMCAR-AEP  
HQ, U.S. Army Armament, Munitions, and Chemical Command  
Picatinny Arsenal, NJ 07806-5000

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## 1. DATA SHEET

### CONTAINER

Type: Box  
UN Code: 4C1  
Nomenclature: BOX, PACKING

BOX, PACKING, AMMUNITION FOR PRIMER  
ELECTRIC M83

Specification Number: Type I, Grade C, Class 1, Mil-B-2427  
Drawing Number: 12527224 and 8847546  
Material: Wood  
Gross Weight: 78 pounds  
Outside Dimensions: 26 5/16" x 15 5/8" x 7 7/32"  
Inside Dimensions: 23 13/16" x 14 1/16" x 4 13/16"

### PRODUCT

Name: M83, M125, and M128 Electric Primers  
Drawing Number: N/A  
United Nations Number: Various  
Physical State: Solid  
Amount per Container: 45 - ELECTRIC PRIMERS

## 2. BACKGROUND, TESTS, AND RESULTS

Reference the following document:  
a. 49 CFR, October 1, 1993 Edition

A Stacking Test was conducted on three containers with a weight of 1,326 pounds per container for 24 hours. This weight exceeds the minimum requirement for a 10' stack height which is 1,248 pounds.

A Loose Cargo Test was conducted on three containers for one hour. The packages were tested at a vibration table frequency such that the bottom of the packages were raised 1/4" from the platform, which exceeds the requirement of 1/16".

A Four Foot Drop Test was conducted on one container that was subjected to Loose Cargo Test. The one container was dropped five times at four feet at the following orientations: top, bottom, long side, short side, and a top corner at the closure. This exceeds the requirement of one drop per container at four feet.

Test results indicated no leakage or spillage of the contents from the containers following any of the tests conducted, meeting the requirements of the 49 CFR.